

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1-11. (Canceled).

12. (Currently Amended) A device for determining a concentration of oxidizable gas components in a gas mixture, comprising:

an electrochemical measuring cell including a measuring electrode and a reference electrode, the measuring electrode including a material that is one of not able to catalyze and not able to completely catalyze an establishment of a gas equilibrium; and

at least one electrochemical pumping cell including at least one inner pumping electrode; and

wherein the at least one inner pumping electrode and the measuring electrode are positioned in a measuring gas compartment, and the at least one ~~electromechanical~~ electrochemical pumping cell is coupled to a circuit configured to apply a pumping voltage to the at least one ~~electromechanical~~ electrochemical pumping cell, so that the at least one ~~electromechanical~~ electrochemical pumping cell pumps oxygen ~~at least one of into and out of into or out of~~ the measuring gas compartment, and

wherein the circuit ~~is configured to~~ applies the pumping voltage to the at least one ~~electromechanical~~ electrochemical pumping cell such that a partial pressure of oxygen in the measuring gas compartment corresponds to a lambda value of ≥ 1.3 ,

wherein the device includes no more than one measuring gas compartment.

13. (Previously Presented) The electrochemical gas sensor according to claim 12, wherein the at least one pumping cell can set an approximately constant partial pressure of oxygen in the measuring gas compartment.

14. (Previously Presented) The electrochemical gas sensor according to claim 12, wherein the measuring electrode and the at least one inner pumping electrode are positioned opposite each other in the measuring gas compartment.

15. (Previously Presented) The electrochemical gas sensor according to claim 12, wherein the measuring electrode includes one of gold and a platinum-gold alloy.
16. (Previously Presented) The electrochemical gas sensor according to claim 15, wherein a gold proportion in the platinum-gold alloy is 0.5 to 20 weight-%.
17. (Previously Presented) The electrochemical gas sensor according to claim 15, wherein a gold proportion in the platinum-gold alloy is approximately 10 weight-%.
18. (Previously Presented) The electrochemical gas sensor according to claim 16, wherein the at least one inner pumping electrode includes a material which is one of not able to catalyze and not completely able to catalyze the establishment of the gas equilibrium.
19. (Previously Presented) The electrochemical gas sensor according to claim 18, wherein the at least one inner pumping electrode contains a platinum-gold alloy having a gold proportion of 0.1 to 3 weight-%.
20. (Previously Presented) The electrochemical gas sensor according to claim 18, wherein the at least one inner pumping electrode contains a platinum-gold alloy having a gold proportion of 0.3 to 0.8 weight-%.
21. (Previously Presented) The electrochemical gas sensor according to claim 12, wherein the reference electrode includes a catalytically active material that is able to catalyze the establishment of the gas equilibrium.
22. (Previously Presented) The electrochemical gas sensor according to claim 21, wherein the catalytically active material is platinum.
23. (Previously Presented) The electrochemical gas sensor according to claim 12, wherein the measuring gas compartment is positioned in one layer plane and is coupled to a gas access hole.
24. (New) A method for determining a concentration of oxidizable gas components in a gas mixture using an electromechanical gas sensor including an electrochemical measuring cell

having a measuring electrode and a reference electrode, the measuring electrode having a material that is one of not able to catalyze and not able to completely catalyze an establishment of a gas equilibrium, the electromechanical gas sensor further including at least one electrochemical pumping cell having at least one inner pumping electrode, the method comprising:

positioning the at least one inner pumping electrode and the measuring electrode in a measuring gas compartment;

coupling the at least one electrochemical pumping cell to a circuit configured to apply a pumping voltage to the at least one electrochemical pumping cell, so that the at least one electrochemical pumping cell pumps oxygen into or out of the measuring gas compartment; and

applying a pumping voltage to the at least one electrochemical pumping cell via the circuit such that a partial pressure of oxygen in the measuring gas compartment corresponds to a lambda value of ≥ 1.3 .